

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: ELLIS RESERVOIR	Lake Area (ha):	29.78
Town: SULLIVAN	Maximum depth (m):	---
County: Cheshire	Mean depth (m):	---
River Basin: Connecticut	Volume (m ³):	---
Latitude: 43°01'15" N	Relative depth:	---
Longitude: 72°10'45" W	Shore configuration:	---
Elevation (ft): 1217	Areal water load (m/yr):	---
Shore length (m): 2100	Flushing rate (yr ⁻¹):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	artificial

BIOLOGICAL:

8 July 1988

DOM. PHYTOPLANKTON (% TOTAL) #1

#2

#3

PHYTOPLANKTON ABUNDANCE (cells/mL)

CHLOROPHYLL-A (µg/L)

DOM. ZOOPLANKTON (% TOTAL) #1

#2

#3

ROTIFERS/LITER

MICROCRUSTACEA/LITER

ZOOPLANKTON ABUNDANCE (#/L)

VASCULAR PLANT ABUNDANCE

SECCHI DISK TRANSPARENCY (m)

BOTTOM DISSOLVED OXYGEN (mg/L)

BACTERIA (fecal col., #/100 ml) #1

#2

#3

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):
Hypolimnion volume (m³): None

CHEMICAL:

Lake: ELLIS RESERVOIR

Town: SULLIVAN

		8 July 1988			
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY (μ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1988

D.O. S.D. PLANT CHL TOTAL CLASS

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COMMENTS:

1. This was a 73.6 acre pond raised by damming. When visited in the summer of 1988, the dam was out. A marshy wetland area surrounding a brook was observed. No water samples were collected and no trophic classification was assigned. This is considered to be a wetland and not a pond.